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PATENT COOPERATION TREA[illegible]

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

To:

Assistant Commissioner for Patents
United States Patent and Trademark Office
Box PCT
Washington, D.C.20231
ÉTATS-UNIS D'AMÉRIQUE

in its capacity as elected Office

Date of mailing (day/month/year) 14 January 2000 (14.01.00)	
International application No. PCT/GB99/01557	**Applicant's or agent's file reference** PBA3/DO88155PWO
International filing date (day/month/year) 17 May 1999 (17.05.99)	**Priority date** (day/month/year) 16 May 1998 (16.05.98)
Applicant OLIVER, Stephen, George et al	

1. The designated Office is hereby notified of its election made:

[X] in the demand filed with the International Preliminary Examining Authority on:

13 December 1999 (13.12.99)

[ ] in a notice effecting later election filed with the International Bureau on:

2. The election [X] was

[ ] was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO **34, chemin des Colombettes** **1211 Geneva 20, Switzerland**	Authorized officer H. Zhou
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38

TENT COOPERATION TRE. Y

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF THE RECORDING OF A CHANGE

(PCT Rule 92bis.1 and Administrative Instructions, Section 422)

To:

ATKINSON, Peter, Birch
Marks & Clerk
Sussex House
83-85 Mosley Street
Manchester M2 3LG
ROYAUME-UNI

Date of mailing (day/month/year)
09 October 2000 (09.10.00)

Applicant's or agent's file reference
PBA3/DO88155PWO

IMPORTANT NOTIFICATION

International application No.
PCT/GB99/01557

International filing date (day/month/year)
17 May 1999 (17.05.99)

1. The following indications appeared on record concerning:

[X] the applicant [ ] the inventor [ ] the agent [ ] the common representative

Name and Address
UNIVERSITY OF MANCHESTER
Institute of Science and Technology
P.O. Box 88
Manchester M60 1QD
United Kingdom

State of Nationality: GB
State of Residence: GB
Telephone No.:
Facsimile No.:
Teleprinter No.:

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:

[X] the person [ ] the name [ ] the address [ ] the nationality [ ] the residence

Name and Address
THE VICTORIA UNIVERSITY OF MANCHESTER
Oxford Road
Manchester M13 9PL
United Kingdom

State of Nationality: GB
State of Residence: GB
Telephone No.:
Facsimile No.:
Teleprinter No.:

3. Further observations, if necessary:

4. A copy of this notification has been sent to:

[X] the receiving Office
[ ] the International Searching Authority
[ ] the International Preliminary Examining Authority
[ ] the designated Offices concerned
[X] the elected Offices concerned
[ ] other:

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland
Facsimile No.: (41-22) 740.14.35

Authorized officer
Sean Taylor
Telephone No.: (41-22) 338.83.38

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

15

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
PBA/DO88155PWO		
International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/GB99/01557	17/05/1999	16/05/1998
International Patent Classification (IPC) or national classification and IPC C12N15/81		
Applicant UNIVERSITY OF MANCHESTER INSTITUTE OF ... et al.		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 8 sheets, including this cover sheet.

   ☒ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which hav been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

   These annexes consist of a total of 3 sheets.

3. This report contains indications relating to the following items:

   - I ☒ Basis of the report
   - II ☒ Priority
   - III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
   - IV ☒ Lack of unity of invention
   - V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations suporting such statement
   - VI ☐ Certain documents cited
   - VII ☐ Certain defects in the international application
   - VIII ☒ Certain observations on the international application

Date of submission of the demand	Date of completion of this report
13/12/1999	30.08.00
Name and mailing address of the international preliminary examining authority: European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized officer Marinoni, J-C Telephone No. +49 89 2399 8563

Form PCT/IPEA/409 (cover sheet) (January 1994)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB99/01557

I. Basis of the report

1. This report has been drawn on the basis of (*substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.*):

Description, pages:

1-38	as originally filed	

Claims, No.:

1-21	as originally filed	
22-38	with telefax of	11/08/2000

Drawings, sheets:

1/9-9/9	as originally filed

2. The amendments have resulted in the cancellation of:

☐ the description, pages:
☐ the claims, Nos.:
☐ the drawings, sheets:

3. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

4. Additional observations, if necessary:

II. Priority

1. ☐ This report has been established as if no priority had been claimed due to the failure to furnish within the prescribed time limit the requested:

☐ copy of the earlier application whose priority has been claimed.

☐ translation of the earlier application whose priority has been claimed.

2. ☐ This report has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid.

Thus for the purposes of this report, the international filing date indicated above is considered to be the relevant date.

3. Additional observations, if necessary:

see separate sheet

IV. Lack of unity of invention

1. In response to the invitation to restrict or pay additional fees the applicant has:

   ☐ restricted the claims.

   ☐ paid additional fees.

   ☐ paid additional fees under protest.

   ☐ neither restricted nor paid additional fees.

2. ☒ This Authority found that the requirement of unity of invention is not complied and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.

3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is

   ☐ complied with.

   ☒ not complied with for the following reasons:

   see separate sheet

4. Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this report:

   ☒ all parts.

   ☐ the parts relating to claims Nos. .

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes:	Claims	1-38
	No:	Claims	NONE
Inventive step (IS)	Yes:	Claims	1-35, 37, 38
	No:	Claims	36
Industrial applicability (IA)	Yes:	Claims	1-38
	No:	Claims	NONE

2. Citations and explanations

see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Re Item II
Priority

The document ZHANG et al. 'Down-regulation of the expression of PKC1 and SRB1/PSA1/VIG9, two genes involved in cell wall integrity in *Saccharomyces cerevisiae*, causes flocculation.' MICROBIOLOGY, Vol. 145, No. Pt 2, February 1999, pages 309-316, has been cited as a P document.
The International Preliminary Examination Authority considers the priority of the present application to be valid. Therefore, this document is not taken into consideration for the establishement of the following opinion. However, some of the documents therein cited are considered to be relevant and are fully citable.

Re Item IV
Lack of unity of invention

Reference is made to the folllowing document:

D1: J. CELL BIOL., Vol. 116, No. 5, 1992, pages 1221-1229, Levin and Bartlett-Heubusch 'Mutants in the S. cerevisiae PKC1 gene display a cell specific osmotic stability defect'

Reference is made to the following document which was not cited in the search report (cited in Zhang et al. 1999).

D2: Zhang, N., PhD thesis, University of Manchester-Institute of Science and Technology, 1997.

1. The separate inventions/groups of invention are:
   (i) Yeast cells wherein the SRB1 and PKC1 genes are each under the control of a heterologous (inducible) promoter, method of regulating yeast cell lysis and method of fermentation using said yeast cells (**claims 1-14, 32-34, 37, 38**),
   (ii) Yeast cells wherein the PKC1 gene is under the control of a heterologous inducible promoter, method of regulating yeast cell flocculation using said yeast cells (**claims 15-23, 35**)
   (iii) Yeast cells wherein the SRB1 gene is under the control of a heterologous promoter, method of fermentation using said yeast cells (**claims 24-31, 36**)

2. They are not so linked as to form a single general inventive concept (Rule 13.1 PCT) for the following reasons:
   (a) the technical feature linking group (i) and (ii) of inventions resides in yeast cells comprising the PKC1 gene under the control of an inducible heterologous promoter; this technical feature is not novel (see **D1**).
   (b) the technical feature linking group (i) and (iii) of inventions resides in yeast cells comprising the SRB1 gene under the control of a heterologous promoter (*i.e.* subject-matter of claim 36); this subject-matter is not novel (see the grounds for this objection)
   (c) the technical feature linking group (ii) and (iii) of inventions resides in yeast cells; this feature is obviously not new.

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. **Claim 1** is directed to a yeast cell containing the SRB1/PSA1 gene and the PKC1 gene or functional derivatives thereof each operatively linked to a heterologous inducible promoter.
   None of the available document discloses nor suggests such cells or methods using said cells. Therefore, the subject-matter of claim 1 meets the requirements of Article 33(2) PCT concerning novelty and Article 33(3) PCT concerning inventive step.

   Consequently, **claims 2-14** and **32-34** also meet these requirements of the PCT.

2. **Claim 15** is directed to a method of regulating yeast cell flocculation comprising growing yeast cells containing the PKC1 gene operatively linked to an inducible promoter. None of the available document discloses nor suggests a link between PKC1 and yeast flocculation.
   None of the available documents neither discloses nor suggests such a method. Therefore, the subject-matter of **claim 15** meets the requirement of Article 33(2) PCT concerning novelty and of Article 33(3) PCT concerning inventive step.

Consequently, dependent **claims 16-23** also meet these requirements of the PCT.

3. **Claim 24** is directed to a method of fermentation comprising growing yeast cells containing the SRB1/PSA1 gene under the control of a heterologous promoter. None of the available documents neither discloses nor suggests such a method. Therefore, **claim 24** meets the requirement of Article 33(3) PCT concerning inventive step.

   Consequently, dependent **claims 25-31** also meet these requirements of the PCT.

4. **Claim 35** is directed to yeast cells comprising the PKC1 gene under the control of an inducible heterologous promoter and selected from two cell lines transformed with specific constructs, and a third cell line. None of the available documents suggests that the specific cells lines containing one of the specific constructs could or should be obtained.
   Therefore, the subject-matter of **claim 35** meets the requirements of Article 33(3) PCT concerning inventive step.

5. **Claim 36** is directed to yeast cells comprising the SRB1 gene under the control of a heterologous promoter.
   Zhang et al. (1999) refers (see page 310, lines 45-55) to document **D2** which appears to disclose yeast cells transformed with vectors containing the SRB1/PSA1 gene under the control of the MET3 promoter.
   Therefore, the subject-matter of **claim 36** does not meet the requirements of Article 33(2) PCT concerning novelty.

Re Item VIII

Certain observations on the international application

1. Many claims refer to names of plasmids or cells lines which appear to be arbitrary denomination which have no defined meaning for the skilled person. Said claims (see **claims 6-8, 20-22, 29-31, 35**) are therefore not clear (Article 6 PCT).

2. Many claims refer to "functional derivatives" of the SRB1 and/or PKC1 genes. None of these functional derivatives is examplified in the application as filed. The

scope of protection afforded by the term "functional derivative" is not fully clear (Article 6 PCT). Furthermore, none of the examples in the application as filed refers specifically to one of such "functional derivatives" (Article 6 PCT). It appears that the caracterisation of such "functional derivatives" useful in the claimed processes would place undue burden on the skilled person (Article 5 PCT).

22. The method according to any one of claims 15 to 20 wherein the yeast cells are ZO123 or ZO124 transformed with the *PKC1* gene or functional derivative thereof operatively linked to an inducable promoter.

23. The method according to any one of claims 15 to 22 for increasing the sedimentation of yeast cells or cell ghosts / debris form a medium within which the yeast cells are grown.

23. A method of fermentation comprising growing yeast cells containing the *SRB1/PSA1* gene or functional derivative thereof operatively linked to a heterologous promoter in a growth medium in which *SRB1/PSA1* expression is regulated by the heterologous promoter whereby said cells flocculate.

24. The method according to claim 23 wherein the yeast cell is a strain of *Saccharomyces cerevisiae*

25. The method according to claim 23 wherein the yeast cell is a strain of *Pichia pastoris, Hansenula polymorpha* or *Kluyveromyces lactis.*

26. The method according to any one of claims 23 - 25 wherein the *SRB1/PSA1* gene or functional derivative thereof is operatively linked to a methionine regulated promoter.

27. The method according to claim 26 wherein the methionine regulated promoter is p*MET3*.

28. The method according to claim 27 wherein the *SRB1/PSA1* gene or functional derivatives thereof operatively linked to an inducable promoter is derived from the recombinant vector SRB1.9e.

29. The method according to claim 28 wherein the yeast cells are ZO-125.

30. The method according to claim 28 wherein the yeast cells are FY23*SRB1*^{MET3}.

31 A method of fermentation comprising growing yeast cells containing the *SRB1/PSA1* and *PKC1* gene or functional derivatives thereof operatively linked to a heterologous promoter in a growth medium in which *SRB1/PSA1* and *PKC1* expression is regulated by the heterologous promoter whereby said cells flocculate.

32. The method according to claim 31 wherein the cells are cells according to any one of claims 1 - 8.

33. The method according to claim 31 wherein the cells contain the *PKC1* gene or a functional derivative thereof operatively linked to a heterologous inducable promoter and the *SRB1/PSA1* gene or a functional derivative thereof operatively linked to a heterologous promoter.

34. A yeast cell containing the *PKC1* gene or functional derivatives thereof operatively linked to a heterologous inducable promoter.

35. A yeast cell containing the *SRB1/PSA1* gene or functional derivatives thereof operatively linked to a heterologous promoter.

36. A yeast cell containing the *PKC1* gene or a functional derivative thereof operatively linked to a heterologous inducable promoter and the *SRB1/PSA1* gene or a functional derivative thereof operatively linked to a heterologous promoter.

37. A yeast cell according to any one of claims 34 - 36 wherein the promoter or promoters is/are *pMET3*.

PATENT COOPERATION TREAT

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	**FOR FURTHER ACTION** see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
PBA3/D088155PWO		
International application No.	International filing date *(day/month/year)*	(Earliest) Priority Date *(day/month/year)*
PCT/GB 99/01557	17/05/1999	16/05/1998
Applicant		
UNIVERSITY OF MANCHESTER et al.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

[X] It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**

   a. With regard to the **language,** the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

   [ ] the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

   b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

   [X] contained in the international application in written form.

   [X] filed together with the international application in computer readable form.

   [ ] furnished subsequently to this Authority in written form.

   [ ] furnished subsequently to this Authority in computer readble form.

   [X] the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

   [X] the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. [ ] **Certain claims were found unsearchable** (See Box I).

3. [ ] **Unity of invention is lacking** (see Box II).

4. With regard to the **title,**

   [ ] the text is approved as submitted by the applicant.

   [X] the text has been established by this Authority to read as follows:

   REGULATED EXPRESSION OF PKC AND/OR SRB1/PSA1 IN YEAST

5. With regard to the **abstract,**

   [X] the text is approved as submitted by the applicant.

   [ ] the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No. -

   [ ] as suggested by the applicant.

   [ ] because the applicant failed to suggest a figure.

   [ ] because this figure better characterizes the invention.

   [ ] None of the figures.

INTERNATIONAL SEARCH REPORT

[redacted]national Application No
[redacted]T/GB 99/01557

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 C12N15/81 C12N15/54 C12N1/19 //(C12N1/19,C12R1:865)

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 6 C12N C12R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	ZHANG N. ET AL.: "Down-regulation of the expression of PKC1 and SRB1/PSA1/VIG9, two genes involved in cell wall integrity in Saccharomyces cerevisiae, causes flocculation." MICROBIOLOGY, vol. 145, no. Pt 2, February 1999 (1999-02), pages 309-316, XP000052921 the whole document --- -/--	1-37

[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

° Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
11 November 1999	25/11/1999

Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Galli, I

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Form PCT/ISA/210 (second sheet) (July 1992)

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication,where appropriate, of the relevant passages	Relevant to claim No.
Y	BELDA F. & ZARATE V.: "Isolation and characterization of Schizosaccharomyces pombe fragile mutants" YEAST, vol. 12, 1996, pages 555-564, XP000852922 the whole document	23
A		1-22, 24-37
Y	WO 94 03609 A (IMP CANCER RES TECH ;PARKER PETER JOSEPH JACQUES (GB); GOODE NIGEL) 17 February 1994 (1994-02-17) abstract page 16 -page 18 claims 1-4	23
A		1-22, 24-37
A	WO 92 01798 A (UNIV MANCHESTER) 6 February 1992 (1992-02-06) abstract	1-37
A	RECH S.B. ET AL.: "Complementation of the Saccharomyces cerevisiae srb1-1 mutation: an autoselection system for stable plasmid maintenance" CURR. GENET., vol. 21, 1992, pages 339-344, XP002122385 the whole document	1-37
A	STATEVA L.I. ET AL.: "Cloning and characterization of a gene which determines osmotic stability in Saccharomyces cerevisiae" MOL. CELL. BIOL., vol. 11, no. 8, August 1991 (1991-08), pages 4235-4243, XP002122386 the whole document	1-37
A	CARO L.H.P. ET AL.: "Transcription of multiple cell wall protein-encoding genes in Saccahromyces cerevisiae is differentially regulated during the cell cycle" FEMS MICROBIOL. LETTERS, vol. 161, no. 2, 15 April 1998 (1998-04-15), pages 345-349, XP000852924 the whole document	1-37

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1

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication,where appropriate, of the relevant passages	Relevant to claim No.
A	STATEVA L.I. ET AL.: "Polyploid fragile strains of Saccharomyces cerevisiae -- a novel source of proteins for nutritional purposes" YEAST, vol. 4, no. 3, September 1988 (1988-09), pages 219-225, XP000852925 the whole document	1-37
A	VERNA J.: "A family of genes required for maintenance of cell wall integrity and for the stress response in Saccharomyces cerevisiae" PROC. NATL. ACAD. SCI. USA, vol. 94, December 1997 (1997-12), pages 13804-13809, XP002122387 the whole document	1-37
A	KLIS F M: "REVIEW: CELL WALL ASSEMBLY IN YEAST" YEAST,GB,CHICHESTER, SUSSEX, vol. 10, page 851-869 XP000196331 ISSN: 0749-503X	1-37
A	WO 96 02629 A (UNIV MADRID COMPLUTENSE ;NOMBELA CANO CESAR (ES); ALVAREZ ALVAREZ) 1 February 1996 (1996-02-01) abstract	1-37
A	SHANKAR C.S. ET AL.: "MIG1 overexpression causes flocculation in Saccharomyces cerevisiae" MICROBIOLOGY, vol. 142, no. Pt 9, 1996, pages 2663-2667, XP002122388 the whole document	1-37
A	US 5 716 808 A (RAYMOND CHRISTOPHER K) 10 February 1998 (1998-02-10) abstract	1-37
A	WO 88 10308 A (WHITEHEAD BIOMEDICAL INST) 29 December 1988 (1988-12-29) abstract	1-37

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INTERNATIONAL SEARCH REPORT

ational Application No
/GB 99/01557

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication,where appropriate, of the relevant passages	Relevant to claim No.
A	DATABASE GENBANK 'Online! Accession No. X06413, 12 September 1993 (1993-09-12) CHEREST H. ET AL.: "Yeast MET3 gene for ATP sulphurylase" XP002122389 cited in the application the whole document & CHEREST H. ET AL.: "The Saccharomyces cerevisiae MET3 gene: nucleotide sequence and relationship of the 5' non-coding region to that of MET25." MOL. GEN. GENET., vol. 210, no. 2, 1987, pages 307-313,	1-37

1

Form PCT/ISA/210 (continuation of second sheet) (July 1992)

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/GB 99/01557

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9403609 A	17-02-1994	EP 0658202 A	21-06-1995
		JP 8503124 T	09-04-1996
WO 9201798 A	06-02-1992	AU 8296291 A	18-02-1992
WO 9602629 A	01-02-1996	ES 2092439 A	16-11-1996
		AU 3078795 A	16-02-1996
US 5716808 A	10-02-1998	AU 1158297 A	29-05-1997
		AU 7673796 A	29-05-1997
		CA 2237039 A	15-05-1997
		CA 2237120 A	15-05-1997
		EP 0889966 A	13-01-1999
		EP 0862640 A	09-09-1998
		WO 9717450 A	15-05-1997
		WO 9717451 A	15-05-1997
		US 5965389 A	12-10-1999
		EP 0920525 A	09-06-1999
		US 5854039 A	29-12-1998
WO 8810308 A	29-12-1988	US 5063154 A	05-11-1991

A-P

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

PCT

To:
MARKS & CLERK
Attn. ATKINSON, Peter Birch.
Sussex House
83-85 Mosley Street
MANCHESTER M2 3LG
UNITED KINGDOM

COMMUNICATION IN CASES FOR WHICH
NO OTHER FORM IS APPLICABLE

Applicant's or agent's file reference PBA3/D088155PWO	Date of mailing *(day/month/year)* 20/12/1999
International application No. PCT/GB 99/01557	**REPLY DUE** See paragraph 1 below
Applicant UNIVERSITY OF MANCHESTER et al.	International filing date *(day/month/year)* 17/05/1999

1. [ ] REPLY DUE within _____ ~~months~~/days from the above date of mailing

   [X] NO REPLY DUE

2. COMMUNICATION:

With regard to your Application PCT/GB99/01557 (Your Ref:PBA/PCB/JK/D88155PWO) for which we have received your Fax of 3 December 1999 and concerning the dispatch of Cited document XP000052921 in error in place of XP000852921.

Please find enclosed the correct Cited document (XP000852921)

We apologise for any inconvienience caused.

Yours sincerely,

Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Andria Overbeeke-Siepkes

Form PCT/ISA/224 (January 1994)